Sentra

PRODUCT DATASHEET

# AI Video Surveillance and Analytics Platform

Live video, alerts with evidence, search, access control, counting and sensors on the cameras you already own, run on a server of your own or hosted and operated by Sentra.

## PRODUCT DESCRIPTION

**Sentra: AI Video Surveillance and Analytics Platform**, a software platform that turns the cameras, recorders and sensors an organisation already owns into one operations console. A server side engine watches every camera, raises alerts with a photo and a clip, reads plates at the barrier, counts people and vehicles, maps where they go, and senses air quality and safety events in rooms where a camera is not acceptable.

Sentra is organised into three complementary modules: Video, Analytics and Operations. The Video module delivers live grids, videowalls, recordings and signed evidence. The Analytics module runs detection, search, access control, counting, heatmaps, parking and junction analysis from a single engine on the server. The Operations module brings everything into one alert inbox, on screen and on the phone, adds sensors for rooms without cameras, and produces reports and an audit trail.

Sentra can be deployed on a server in the customer's own building or data centre, or hosted and operated by Sentra in an isolated tenant. The software is identical in both cases. There is no cloud fee per camera and no AI licence per camera: the cost of intelligence follows the server, not the number of devices. The solution suits public institutions, defence and critical infrastructure, transport and logistics, healthcare, education, retail and office estates.

## Administrators

- Enrol cameras of any brand, import existing recorders with all of their channels, and add sensors, with nothing to replace.
- Draw the rules on the camera picture: areas to watch, lines to count or alarm, parking bays, junction arms and fall areas.
- Switch capabilities on per organisation, set what is kept and for how long, and give every person one role and, if needed, a list of cameras.
- Organise sites in a tree, so head office sets the rules once and each site runs its own cameras and people.

## Operators

- Watch every camera in one grid, open a videowall on any display, and drive moving cameras with saved positions.
- Receive the few events that matter, each with a snapshot and a clip, on screen and on the phone, and acknowledge them for the team.
- Open a barrier from the console, see which vehicles were let in or refused, and check occupancy and free parking bays live.

## Investigators and managers

- Find a person or a vehicle across all cameras by example, by description or by colour, and follow them on a timeline from camera to camera.
- Watch recordings back, keep footage beyond its retention, and export a signed evidence package that anyone can verify offline.
- Read counting, parking, junction, heatmap and sensor figures, and generate branded reports on request or on a schedule.

Access is based on one role per person and an optional camera list, so a guard desk sees one building, a regional supervisor sees every site, and an auditor sees recorded footage and nothing else. The console and the mobile app work in Romanian and English.

CAPABILITIES

# What the platform does, grouped by domain

## 01 Live Video and Videowalls

I

FOR THE GUARD DESK

**Every camera in one grid** sized to the screen, with the camera name, a recording mark and a clear reason whenever a source is down. Players recover from stream failures on their own.

II

FOR CONTROL ROOMS

**Videowalls on any display** are built in a minute: pick a layout, assign a camera to each cell, name the wall and open it on a second monitor or on the big screen. A wall can be edited while it is on screen.

III

FOR MOVING CAMERAS

**Pan, tilt and zoom with saved positions** appear only on the cameras that support them, with fine steps on tap and a safety cap on continuous movement.

## 02 AI Detection and Alerts

I

FOR THE EVENTS THAT MATTER

**The server watches every camera** and raises only what you asked for: a person where nobody should be, a vehicle stopped in the wrong place, luggage left behind, someone on the ground.

II

FOR EVIDENCE WITH EVERY ALERT

**A snapshot and a clip** arrive with each alert, on the console and on the phone, so an operator judges the event without opening a recording.

III

FOR FEWER FALSE ALARMS

**A perspective filter and alert grouping** drop the false boxes that plague ordinary motion detection and turn one incident into one alert rather than a hundred.

IV

FOR EACH PERSON

**Personal alert rules** decide which event types, cameras, severities and hours reach each person, with quiet hours when needed.

## 03 Zones and Rules

I

FOR RULES DRAWN ON THE PICTURE

**Areas, lines, bays and arms** are drawn directly on the camera picture, each with its own options and its own history, and take effect without restarting anything.

II

FOR PEOPLE ON THE GROUND

**Fall areas** raise a critical alert within seconds of someone lying on the ground, with the picture, and clear themselves once the spot is empty again.

III

FOR PERIMETERS AFTER HOURS

**Alarm lines and loitering areas** watch a fence, a gate or a yard for crossings and for people who stay too long, with the direction and the classes you choose.

## 04 AI Search

I

FOR FINDING A PERSON OR A VEHICLE

**Search by example, by description or by colour** returns the matches from all cameras ranked by similarity, with the full scene behind every result.

II

FOR FOLLOWING THEM IN TIME

**A timeline from camera to camera** orders the matches in time, so the route of a person or a vehicle through the site is reconstructed in minutes.

III

FOR PLAIN WORDS

**The alert history answers questions** written the way people speak, so an operator asks for what happened instead of scrolling through footage.

## 05 Access Control

I

FOR THE BARRIER

**Plates read from ordinary cameras** open the barrier for the vehicles on your list, with validity periods and entrances per vehicle, and deny the rest with a photo.

II

FOR THE LOG

**Every read and every decision** is recorded with its time, plate snapshot, entrance and reason, and the barrier can be opened from the console when a visitor needs it.

## 06 Counting

I

FOR FOOTFALL AND OCCUPANCY

**Counting lines drawn in two clicks** report people and vehicles in and out, occupancy right now and the peak of the day, by category, with a picture of every crossing.

II

FOR FIGURES YOU CAN DEFEND

**Coverage stated on every number** tells you how much of the period the camera actually saw. Daily figures are kept for years, so this season is compared with the last.

III

FOR LIMITS

**Threshold alerts** raise an alert when a count stays past a limit, so overcrowding is noticed while it is happening.

## 07 Heatmaps

I

FOR LAYOUT AND SCHEDULE DECISIONS

**Traffic and dwell heatmaps** show where people and vehicles went and where they stopped, drawn over the camera picture for a day, a week or a season.

## 08 Parking and Junctions

I

FOR FREE BAYS

**Bays drawn on the car park camera** give occupied and free spaces per row, live, with a chart over the day and a threshold alert when a row fills up.

II

FOR TURNING MOVEMENTS

**Arms drawn on the junction camera** count vehicles from each arm to each arm, by class, replacing a survey crew with the camera that is already there.

## 09 Sensors

I

FOR ROOMS WITHOUT CAMERAS

**Vaping, smoke, aggression and calls for help** are detected in bathrooms, locker rooms and other places where a camera cannot go, with no image of anyone and a nearby camera linked for context.

II FOR AIR QUALITY

**Carbon dioxide, particulates and other readings** are shown as live tiles and trends, with thresholds that raise an alert in the same inbox as the cameras.

## 10 Recordings and Evidence

I FOR RECORDING POLICY

**Continuous, scheduled or event based recording** is set per camera with its retention, and the platform states the storage it will use before anything is saved.

II FOR EVIDENCE THAT HOLDS UP

**Kept footage and signed packages** protect what matters: a range is kept beyond retention until released, and an export carries its own verifier, so a court or an insurer checks it without Sentra.

## 11 Reports and Audit

I FOR MANAGEMENT

**Branded reports** with your name and logo are generated on request or on a schedule and delivered by email.

II FOR ACCOUNTABILITY

**An audit trail nobody can edit** records every change of settings, every recording opened and every export, with the person who did it.

## 12 Mobile App

I FOR PEOPLE AWAY FROM THE DESK

**Alerts on the phone** arrive with a direct link to the alert or the camera, with live video and acknowledgement from anywhere.

## 13 Deployment and Licensing

I FOR DATA THAT MUST NOT LEAVE THE SITE

**Self hosted** on one GPU server inside your building, sized from the number of cameras and the capabilities you enable. Cameras, recorders and sensors stay on your network.

II FOR GROUPS WITH MANY SITES

**Your own data centre** runs the same installation, with each site connected to it and able to keep an engine of its own that works through an outage.

III FOR ORGANISATIONS WITHOUT A SERVER

**Hosted by Sentra** in an isolated tenant for your organisation. Cameras and recorders connect to it, and updates and capacity are handled by Sentra.

IV FOR A PREDICTABLE COST

**Licensed as a whole** with capabilities switched on per organisation, no cloud fee per camera and no AI licence per camera. Support and updates are included.

## 14 Security and Data Protection

I FOR DATA RESIDENCY

**Video and detections stay** on your server or inside your own isolated tenant, never on a shared cloud service.

II FOR PRIVACY BY DESIGN

**Figures, not images** leave the engine for counting, parking and heatmaps, and the person index used by search is kept for days, not months.

III FOR ACCESS CONTROL

**One role per person** and an optional camera list are enforced on every page, from live video to search and reports.

IV FOR TRACEABILITY

**Every view, export and change** is written to an audit trail that cannot be edited or removed by anyone.